



# SPYWOLF

## Security Audit Report



Audit prepared for  
**Apollo Caps**

Completed on  
**March 26, 2024**

@SPYWOLFNETWORK



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SPYWOLF.CO



# KEY RESULTS

Cannot mint new tokens	Passed
Cannot pause trading (honeypot)	Not Passed
Cannot blacklist an address	Not Passed
Cannot raise taxes over 25%?	Passed
No proxy contract detected	Passed
Not required to enable trading	Passed
No hidden ownership	Passed
Cannot change the router	Passed
No cooldown feature found	Passed
Bot protection delay is lower than 5 blocks	Passed
Cannot set max tx amount below 0.05% of total supply	Passed
The contract cannot be self-destructed by owner	Passed

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

\*Only new deposits/reinvestments can be paused





# OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# Apollo Caps

## APOLLO CAPS

California, the USA

Sine 2008

### PROJECT DESCRIPTION

#### **According to their whitepaper:**

Apollo Caps - a venture capital from the United States of America was established in 2008 by Johnson Morgan and operates as an asset management company in the stock and forex markets.

Wwith the approval of the Bitcoin ETF by the SEC and the establishment of the subsidiary company Apollo Caps ETF, the company has created the ACE token - a revolutionary currency that facilitates quick and convenient investment transactions.

**Release Date:** Presale starts in March, 2024

**Category:** DeFi

01



# CONTRACT INFO

Token Name  
Apollo Caps ETF

Symbol  
ACE

Contract Address  
0xcB7bF0218CCBf340C6676706C60A41c1E9CBdD44

Network  
Binance Smart Chain

Language  
Solidity

Deployment Date  
March 20, 2024

Contract Type  
Token with taxes

Total Supply  
100,000,000

Status  
Not aunched

## TAXES

Buy Tax  
**none**

Sell Tax  
**1%**

\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat





# TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	100000000 ACE
Median Transfer Amount	100000000 ACE
Average Transfer Amount	100000000 ACE
First transfer date	2024-03-20
Last transfer date	2024-03-20
Days token transferred	1

# SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2024-03-20 09:15:49 UTC
Created	2024-03-20 09:15:49 UTC
Create TX	0xd26b8915c569dff2843475299904a6465f510ddcb44d6aa75d0b59e268929245
Creator	0x33665a88dcce83918624cc5f5eb69b118abae36e



# FEATURED WALLETS

Owner address	0x33665A88dCCE83918624Cc5f5EB69b118aBAe36e
Marketing fee receiver	Same as owner
LP address	N/A

# TOP 3 UNLOCKED WALLETS

100%	0x33665A88dCCE83918624Cc5f5EB69b118aBAe36e Same as owner, tokens are not distributed yet.
N/A	
N/A	





# VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



# VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



# VULNERABILITY ANALYSIS

## NO ERRORS FOUND



# MANUAL CODE REVIEW

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When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

## THREAT LEVELS

### High Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Medium Risk

---

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

### Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

### Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



# FOUND THREATS

## ⚠ High Risk

Owner can blacklist any address, making it impossible to buy/sell. If liquidity pair is blacklisted, it will be impossible for all to buy/sell.

```
function addBlacklist(address account) public onlyOwner {
    _blacklist[account] = true;
    emit Blacklist(account, true);
}

modifier notBlacklisted(address account) {
    require(!_blacklist[account], "ACE: account is blacklisted");
    _;
}

function transfer(address to, uint256 value) public virtual override whenNotPaused returns (bool) {
    address owner = _msgSender();
    _transferWithTax(owner, to, value);
    return true;
}

function _transferWithTax(
    address sender,
    address recipient,
    uint256 amount
) internal notBlacklisted(sender) notBlacklisted(recipient) {
    uint256 taxRate = 0;
    if (pairs[sender]) {
        taxRate = buyTaxRate;
    } else if (pairs[recipient]) {
        taxRate = sellTaxRate;
    }

    if (taxRate > 0) {
        uint256 taxAmount = (amount * taxRate) / 10000;
        if (taxAmount > 0) {
            _transfer(sender, receiveFeeAddress, taxAmount);
        }
        _transfer(sender, recipient, amount - taxAmount);
    } else {
        _transfer(sender, recipient, amount);
    }
}
```

- Recommendation:
  - Blacklisting addresses (bot protection) should be automated with reasonable criteria.



# FOUND THREATS

## ⚠ High Risk

Owner can pause trading, making it impossible to sell.

```
function pause() public onlyOwner {
    _pause();
}

function _pause() internal virtual whenNotPaused {
    _paused = true;
    emit Paused(_msgSender());
}

modifier whenNotPaused() {
    _requireNotPaused();
    _;
}

function _requireNotPaused() internal view virtual {
    if (paused()) {
        revert EnforcedPause();
    }
}

function paused() public view virtual returns (bool) {
    return _paused;
}

function transfer(address to, uint256 value) public virtual
override whenNotPaused returns (bool) {
    address owner = _msgSender();
    _transferWithTax(owner, to, value);
    return true;
}
```

- Recommendation:
  - Once trading is enabled, it should not be disabled again.



# FOUND THREATS

## ⚠ Medium Risk

Owner can change receiverFee address.  
If receiverFeeAddress is set to address(0), contract will halt on sell.

```
function setReceiverFeeAddress(address _receiverFeeAddress) public onlyOwner {
    receiverFeeAddress = _receiverFeeAddress;
}

function _transfer(address from, address to, uint256 value) internal {
    if (from == address(0)) {
        revert ERC20InvalidSender(address(0));
    }
    if (to == address(0)) {
        revert ERC20InvalidReceiver(address(0));
    }
    _update(from, to, value);
}

function _transferWithTax(
    address sender,
    address recipient,
    uint256 amount
) internal notBlackListed(sender) notBlackListed(recipient) {
    uint256 taxRate = 0;
    if (pairs[sender]) {
        taxRate = buyTaxRate;
    } else if (pairs[recipient]) {
        taxRate = sellTaxRate;
    }

    if (taxRate > 0) {
        uint256 taxAmount = (amount * taxRate) / 10000;
        if (taxAmount > 0) {
            _transfer(sender, receiverFeeAddress, taxAmount);
        }
        _transfer(sender, recipient, amount - taxAmount);
    } else {
        _transfer(sender, recipient, amount);
    }
}
```

- Recommendation:
  - receiverFeeAddress state variable should not be set at address(0)





# FOUND THREATS

## Informational

Owner can withdraw any tokens from the contract, excluding the native ACE token.

When this function is present, in cases tokens and/or bnb are sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function claimStuckTokens(address _token, address _to) public onlyOwner {
    require(_token != address(this), "ACE: cannot claim ACE tokens");
    IERC20 token = IERC20(_token);
    uint256 balance = token.balanceOf(address(this));
    token.transfer(_to, balance);
}

//withdraw ether
function withdraw() public onlyOwner {
    uint256 balance = address(this).balance;
}
```



# FOUND THREATS

## Informational

Owner can set buy/sell fees up to 10%.

Combined buy+sell fees = 20%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
uint16 private _maxBuyTaxRate = 1000; // 10%
uint16 private _maxSellTaxRate = 1000; // 10%

function setTaxRate(uint16 _buyTaxRate, uint16 _sellTaxRate) public onlyOwner {
    require(
        _buyTaxRate <= _maxBuyTaxRate,
        "ACE: buy tax rate must be less than or equal to max buy tax rate"
    );
    require(
        _sellTaxRate <= _maxSellTaxRate,
        "ACE: sell tax rate must be less than or equal to max sell tax rate"
    );
    buyTaxRate = _buyTaxRate;
    sellTaxRate = _sellTaxRate;
}

function _transferWithTax(
    address sender,
    address recipient,
    uint256 amount
) internal notBlackListed(sender) notBlackListed(recipient) {
    uint256 taxRate = 0;
    if (pairs[sender]) {
        taxRate = buyTaxRate;
    } else if (pairs[recipient]) {
        taxRate = sellTaxRate;
    }

    if (taxRate > 0) {
        uint256 taxAmount = (amount * taxRate) / 10000;
        if (taxAmount > 0) {
            _transfer(sender, receiveFeeAddress, taxAmount);
        }
        _transfer(sender, recipient, amount - taxAmount);
    } else {
        _transfer(sender, recipient, amount);
    }
}
```



There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

# TOKENOMICS



# WEBSITE

## Website URL

<https://apollocaps.com/>

## Domain Registry

<https://www.namesilo.com/>

## Domain Expiration

2024-10-18

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Very nice color scheme and overall layout.

## Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

## Whitepaper

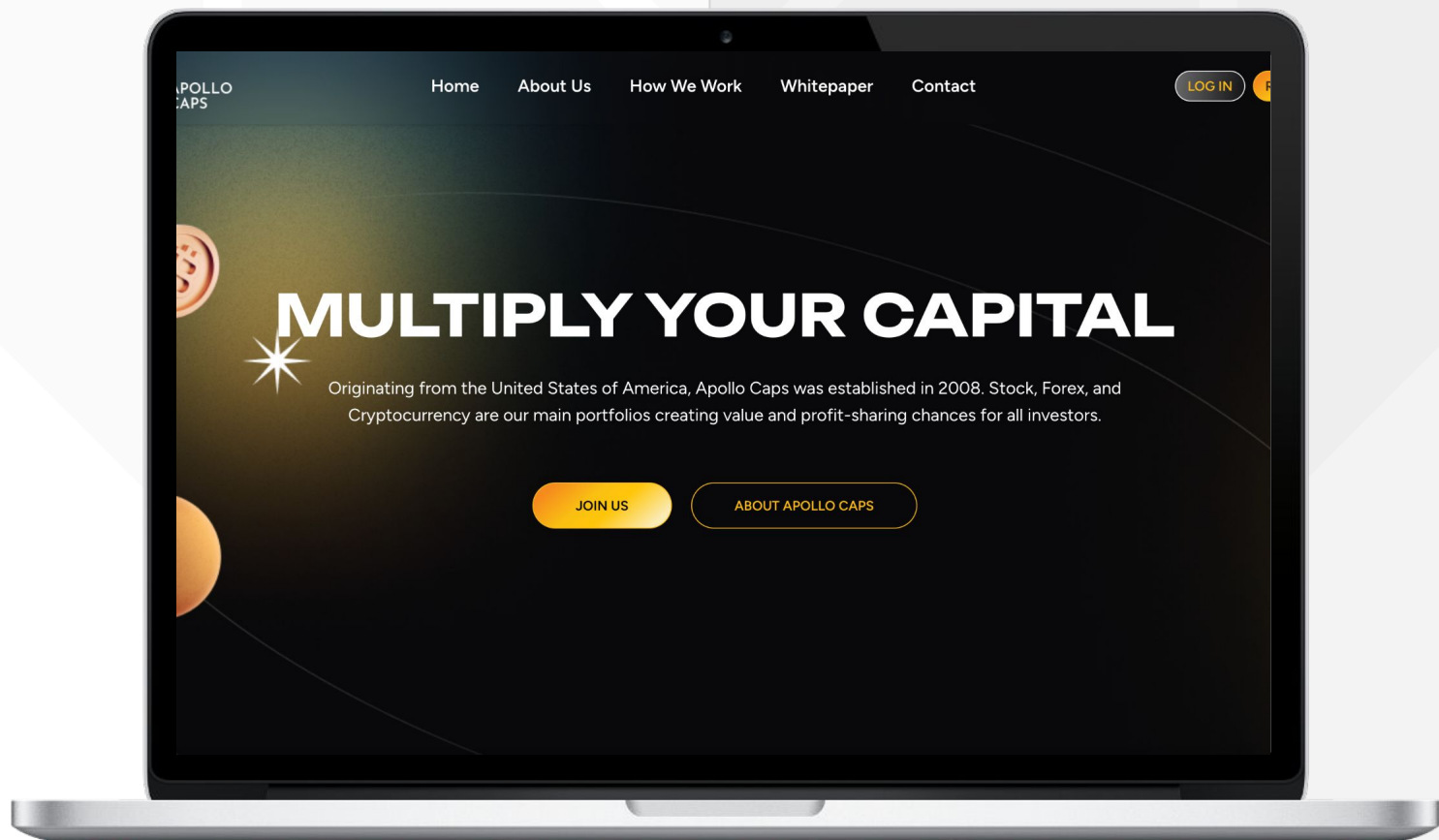
Well written, explanatory.

## Roadmap

Yes, goals set without time frames.

## Mobile-friendly?

Yes



# apollocaps.com

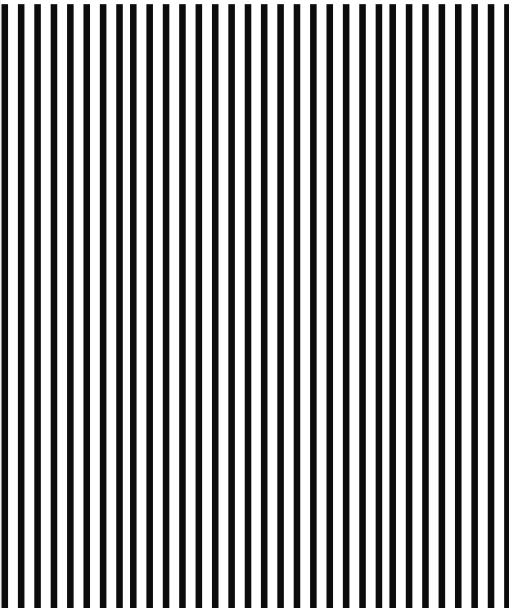


# SOCIAL MEDIA & ONLINE PRESENCE



## ANALYSIS

Project's social media pages are active



Twitter's X  
@ApolloCaps

- 6 294 followers
- Posts frequently
- Active



Discord

- Not available



Telegram  
@Apollo\_Asset

- 3 388 subscribers
- Posts regularly



Medium

- Not available



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

